

Notice of Allowability	Application No.	Applicant(s)	
	09/899,220	BABA ET AL.	
	Examiner	Art Unit	
	Tom V. Sheng	2629	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS**. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. This communication is responsive to amendment filed on 2/21/2006 and 3/10/2006.
2. The allowed claim(s) is/are 29-44.
3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some* c) None of the:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) hereto or 2) to Paper No./Mail Date _____.
 - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. Notice of References Cited (PTO-892)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)
3. Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____
4. Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. Notice of Informal Patent Application (PTO-152)
6. Interview Summary (PTO-413),
Paper No./Mail Date _____.
7. Examiner's Amendment/Comment
8. Examiner's Statement of Reasons for Allowance
9. Other _____.

Examiner's Amendment

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Remus F. Fetea on 5/22/06.

In the claims:

Please rejoin claims 32-38 and 42 (dependent on claim 29).

Please cancel claims 45-52.

Allowable Subject Matter

2. Claims 29-44 are allowed.
3. The following is an examiner's statement of reasons for allowance:

The invention is directed to a liquid crystal display method to display an image according to an image signal, comprises changing a ratio of a display period and a non-display period of the image according to a detected maximum brightness of the image signal.

Independent claim 29 recites the uniquely distinct features "changing a ratio of the display period and the non-display period of said image in said 1 frame period according to said detected maximum brightness level, wherein when the maximum brightness level is high, the ratio is increased by lengthening the one display period and

shortening the one non-display period, and when the maximum brightness level is low, the ratio is decreased by shortening the one display period and lengthening the one non-display period."

Huang (US 6,597,372 B2) teaches a display method; wherein, based on the logical states of the bits, the pulse width modulated signals are combined to form another signal, and the pixel cell is driven with this other signal per frame. However, Huang does not teach or suggest changing the duty ratio as claimed.

Kawamura et al. (US 5,117,224) teaches driving a color liquid crystal panel, using one display period and one non-display period per frame. The non-display period is based on the vertical blanking period and the grayscale is determined by adjusting driving voltage. Kawamura does not teach or suggest changing the duty ratio as claimed.

Mizutani et al. (US 6,392,620 B1) teaches dividing each frame period into a display period, wherein each color is displayed sequentially, and a non-display period, during which either there's either a blank signal or backlight is off. Mizutani does not teach or suggest changing the duty ratio as claimed.

Takenaka et al. (US 6,473,077 B1) teaches a prior art display driving method, wherein half of a frame is for scanning/driving of image signals and another half of the frame is for scanning/driving black signals. Takenaka does not teach or suggest changing the duty ratio as claimed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tom V. Sheng whose telephone number is (571) 272-7684. The examiner can normally be reached on 9:00am - 6:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amr Awad can be reached on (571) 272-7764. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Tom Sheng
May 22, 2006



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